

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
18 December 2003 (18.12.2003)

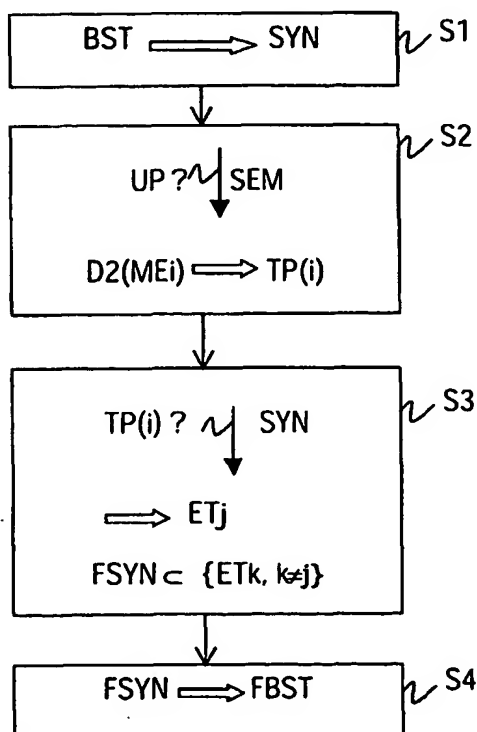
PCT

(10) International Publication Number
WO 2003/105441 A3

- (51) International Patent Classification⁷: **H04N 7/24**
- (21) International Application Number:
PCT/IB2003/002462
- (22) International Filing Date: 4 June 2003 (04.06.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
02291452.7 11 June 2002 (11.06.2002) EP
- (71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **AMIELH CAPRIOGLIO**, Myriam [FR/FR]; 156 Boulevard Haussmann, F-75008 Paris (FR). **DEVILLERS**, Sylvain [FR/FR]; 156 Boulevard Haussmann, F-75008 Paris (FR). **MIREUX**, Patrice [FR/FR]; 156 Boulevard Haussmann, F-75008 Paris (FR).
- (74) Agent: **DE LA FOUCHARDIERE**, Marie-Noëlle; Société Civile SPID, 156 Boulevard Haussmann, F-75008 Paris (FR).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report
- (88) Date of publication of the international search report:
6 May 2004

[Continued on next page]

(54) Title: METHOD OF FILTERING A BITSTREAM ACCORDING TO USER SPECIFICATIONS



(57) Abstract: The invention proposes a method of filtering a bitstream according to user specifications. The proposed method uses a semantic description and a syntactical description of the bitstream. The semantic description is scanned to select the elementary units that match the user specification. The time is used as a linking mechanism between the semantic description and the syntactical description to locate the elements of the syntactical description that are to be removed. A filtered syntactical description is generated by removing the located elements. Finally, a filtered bitstream is generated from the filtered syntactical description.

WO 2003/105441 A3



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

PCT/IB 03/02462

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04N7/24

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHEDMinimum documentation searched (classification system followed by classification symbols)
IPC 7 H04N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PFEIFFER S ET AL: "TV ANYTIME AS AN APPLICATION SCENARIO FOR MPEG-7" PROCEEDINGS ACM MULTIMEDIA 2000 WORKSHOPS. MARINA DEL REY, CA, NOV. 4, 2000, ACM INTERNATIONAL MULTIMEDIA CONFERENCE, NEW YORK, NY: ACM, US, vol. CONF. 8, 4 November 2000 (2000-11-04), pages 89-92, XP001003701 ISBN: 1-58113-311-1 * sections 1. - 4. * --- -/--	1-8

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

10 November 2003

Date of mailing of the international search report

19/01/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Fassnacht, C

INTERNATIONAL SEARCH REPORT

VIB 03/02462

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01 99416 A (DURDEN GEORGE A ;STEFANIK JOHN R (US); SWIX SCOTT R (US); BELLSOUT) 27 December 2001 (2001-12-27) page 2, line 12 -page 5, line 5 page 9, line 31 -page 10, line 22 page 11, line 13 -page 15, line 2 page 21, line 7 -page 24, line 4	1,3-8
A	----	2
A	AMIELH M ET AL: "Bitstream Syntax Description Language: Application of XML-Schema to Multimedia Content Adaptation" PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON WORLD WIDE WEB, XX, XX, 8 May 2002 (2002-05-08), pages 1-14, XP002255244 * section 1 * * sections 2.3 - 2.4 *	1-8
A	ABDEL-MOTTALEB M ET AL: "Aspects of multimedia retrieval" PHILIPS JOURNAL OF RESEARCH, ELSEVIER, AMSTERDAM, NL, vol. 50, no. 1, 1996, pages 227-251, XP004008214 ISSN: 0165-5817 page 240, line 21 -page 240, line 30	1,3-8
A	EP 0 720 369 A (IBM) 3 July 1996 (1996-07-03) column 1, line 12 -column 3, line 21 column 6, line 58 -column 7, line 15	1,3-8
A	NACK F ET AL: "DER KOMMENDE STANDARD ZUR BESCHREIBUNG MULTIMEDIALER INHALTE - MPEG-7" FERNMELDE-INGENIEUR, BAD WINSHEIM, DE, vol. 53, no. 3, March 1999 (1999-03), pages 1-40, XP000997437 ISSN: 0015-010X page 12, line 24 -page 12, line 30 page 20, line 11 -page 20, line 13 page 29, line 7 -page 29, line 33	1-8
A	AVARO O ET AL: "MPEG-7 SYSTEMS: OVERVIEW" IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, IEEE INC. NEW YORK, US, vol. 11, no. 6, June 2001 (2001-06), pages 760-764, XP001059865 ISSN: 1051-8215 * section "III.B. Access Units" *	1-8

-/--

INTERNATIONAL SEARCH REPORT

CT/IB 03/02462

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DAVIS M: "Media Streams: an iconic visual language for video annotation" VISUAL LANGUAGES, 1993., PROCEEDINGS 1993 IEEE SYMPOSIUM ON BERGEN, NORWAY 24-27 AUG. 1993, LOS ALAMITOS, CA, USA, IEEE COMPUT. SOC, US, 24 August 1993 (1993-08-24), pages 196-202, XP010032712 ISBN: 0-8186-3970-9 * section "3.1 Streams vs. clips" * * section "4. Media Streams: An Overview" *	1-8
P,X	US 2002/131511 A1 (ZENONI IAN) 19 September 2002 (2002-09-19) paragraph '0007! paragraph '0010! paragraph '0014! - paragraph '0016! paragraph '0044! paragraph '0058! figure 5	1-8

INTERNATIONAL SEARCH REPORT

PCT/IB 03/02462

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0199416	A	27-12-2001	AU 5085501 A	02-01-2002
			AU 6346401 A	02-01-2002
			CA 2413763 A1	27-12-2001
			CA 2413779 A1	27-12-2001
			EP 1295470 A2	26-03-2003
			WO 0199435 A2	27-12-2001
			WO 0199416 A2	27-12-2001
			US 2002047894 A1	25-04-2002
EP 0720369	A	03-07-1996	US 5778135 A	07-07-1998
			CA 2155888 A1	01-07-1996
			DE 69517787 D1	10-08-2000
			DE 69517787 T2	14-12-2000
			EP 0720369 A2	03-07-1996
			JP 8242440 A	17-09-1996
			KR 219351 B1	01-09-1999
US 2002131511	A1	19-09-2002	AU 8845301 A	04-03-2002
			AU 9501301 A	04-03-2002
			CA 2420371 A1	28-02-2002
			EP 1312209 A2	21-05-2003
			EP 1312215 A2	21-05-2003
			WO 0217627 A2	28-02-2002
			WO 0217634 A2	28-02-2002
			US 2002065678 A1	30-05-2002
			US 2002059588 A1	16-05-2002